PATENT COOPERATION TREATY

DopheFula

From the INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/220 (January 2004)

To: JESSICA M. SINNOT	PCT					
E. I. DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER	NOTIFICATION OF TRANSMITTAL OF					
4417 LANCASTER PIKE	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL					
WILMINGTON, DE 19805	SEARCHING AUTHORITY, OR THE DECLARATION					
RECEIVE	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)					
PATENT RECORDS						
	(day/month/year) & J HIII 2003					
Applicant's or agent's file reference MAY () 4 200 CL2125PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US04/10710	International filing date International filing date I					
Applicant TO SERPHE	Y					
Applicant E. I. DU PONT DE NEMOURS AND COMPANATIORNE						
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.						
Filing of amendments and statement under Article 1. The applicant is entitled, if he so wishes, to amend the	9: claims of the international application (see Rule 46):					
When? The time limit for filing such amendments search report.	is normally two months from the date of transmittal of the international					
Where? Directly to the International Bureau of WII 1211 Geneva 20, Switzerland, Facsimile N	PO, 34 chemin des Colombettes MAY 0 6 2005					
For more detailed instructions, see the notes on the						
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.						
3. With regard to the protest against payment of (an) add	ditional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has applicant's request to forward the texts of both the	been transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.					
	applicant will be notified as soon as a decision is made.					
4. Reminders						
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.						
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Authorized officer						
Commissioner for Patents P.O. Box 1450	Wenpeng Chen					
Alexandria, Virginia 22313-1450 Pacsimile No. (703)305-3230						

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CL2125PCT		Form PCT/ISA/220 here applicable, item 5 below.						
International application No. PCT/US04/10710	International filing date (day/month/year) 07 April 2004 (07.04.2004) (Earliest) Priority Date (day/month/year) 07 April 2003 (07.04.2003)							
Applicant E. I. DU PONT DE NEMOURS AND COMPANY								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.								
furnished to this Auth	al search was carried out on the basis of a transority (Rule 23.1(b)).	,						
1 ==		n the international application, see Box No. I.						
	d unsearchable (See Box No. II)							
3. Unity of invention is lack. 4. With regard to the title, the text is approved as sub.								
	ed by this Authority to read as follows:							
*								
	**	*						
1								
5. With regard to the abstract,	omitted by the applicant.							
the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.								
	be published with the abstract is Figure No. 1	- -						
as suggested by the applicant.								
as selected by this Authority, because the applicant failed to suggest a figure.								
as selected by this Authority, because this figure better characterizes the invention.								
b. none of the figures is to b	e published with the abstract:							

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10710

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

An image analysis method and apparatus (10) having an imaging assembly (12) and a processor (14) to quantify visual showthrough of printed images on the reverse face of planar objects, such as paper. An illumination level is set using a white reference object. A white reference image is stored in a computer memory. An image of a planar object having a printed image on the reverse face is stored in a computer memory. A pixel by pixel ratio of the two images is calculated and a mean value of the ratios is calculated to characterize the visual showthrough. The measurements are substantially independent of both the illumination level and image shading.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10710

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06K 9/00; G01N 21/00, 21/84 US CL : 382/141; 356/435, 429						
According to	International Patent Classification (IPC) or to both nat	ional classification and IPC				
	OS SEARCHED		 			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 382/141, 108, 112,2 86; 356/435, 429, 432, 433, 434, 440, 445, 234, 236						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOCT	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap		Relevant to claim No.			
Α	WO98/20326 (RUBIN et al) 14 May 1998 (14.05.19	98), whole ducument.	1-18			
Α	US 6,081,612 A (GUTKOWICZ-KRUSIN et al) 27 document.	1-18				
Α	US 20040021869 A1 (SHAKESPEARE et al) 05 Feb document.	1-18				
\mathbf{A}^{\cdot}	US 5,793,486 A (GORDON et al) 11 August 1998 (1-18				
- A	US 5,082,529 A (BURK) 21 January 1992 (21.01,19	1-18				
A ,	US 3,455,637 A (HOWARD) 15 July 1969 (15.07.1	1-18				
A	A US 3,827,808 A (CHO) 6 August 1974 (06.08.1974), whole document.					
Α	HO. T. et al Applying Digital Image Technology to on Electrical and Computer Engineering, 14-17 Sept whole cocument.	Pulp and Paper, Canadian Conferen ember 1993, Vol. 2, pages 1139-11	1-18 43,			
Further	documents are listed in the continuation of Box C.	See patent family annex				
* S	pecial categories of cited documents:	"T" later document published after	the international filing date or priority			
	t defining the general state of the art which is not considered to be	the principle or theory underly	ne application but cited to understand ying the invention			
•	plication or patent published on or after the international filing		nce; the claimed invention cannot be considered to involve an inventive en alone			
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	considered to involve an inver	nce; the claimed invention cannot be ntive step when the document is ther such documents, such combination led in the art			
	t referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family				
priority d	t published prior to the international filing date but later than the					
Date of the a	Date of the actual completion of the international search Date of mailing of the international search report					
	5 (12.04.2005)	Authorized officer	-			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230						

INTERNATIONAL SEARCH REPORT		International application No. PCT/US04/10710					
							•
	. 9 · 1						* * *
			·				
-		2	· ·		*		
						2.	•
			•			9	
Continuation EAST, IEEE >	of B. FIELDS SE.	ARCHED Item 3:					
search terms: s	eethrough, showthro	ugh, opacity, paper,	sheet, dark-curre	nt 	-		
* *		•			· 		
		•					:
					•	9	
			•				
		.*			ě.,	,	
· ·							

Form PCT/ISA/210 (extra sheet) (January 2004)